

Notice of Allowability

Application No.

10/736,615

Examiner

Tran N. Nguyen

Applicant(s)

HUNG, PAO-CHUANG

Art Unit

2834



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to ____.
2. ☐ The allowed claim(s) is/are 1-6.
3. ☒ The drawings filed on 17 December 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date ____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date ____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other ____. |

DETAILED OFFICE ACTION

Examiner's Amendment

1. An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicants, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it must be submitted no later than the payment of the Issue Fee.

Please change the following:

In the claim:

In claim 1, line 6, change "winded" to -wound-

In claim 1, line 19, change "winded" to -wound-

The above Examiner's amendment is simply correct grammatical issue in the recitation. Should the changes and/or additions be unacceptable to applicants, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it must be submitted no later than the payment of the Issue Fee.

Allowable Subject Matter

Claims 1-6 are allowed.

Reason for Allowability

The following is an examiner's statement of reasons for allowance: the primary reason for the allowance is the including, in combination with other limitations recited in the claims, the particular recited structure of an automatic electric power generating device for wheels, comprising:

a wheel hub having a hollow column extended from a center thereof, a ***first magnetic pole set*** and a ***second magnetic element***; wherein, the first magnetic pole set having left and right

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magnetic poles that form intermeshed-claw-pole set and has a spool with a coil having one guiding end thereof connected to a first electric power driven device, and ;

a housing having an opening at a center portion thereof, a *first magnetic element* and a **second magnetic pole set**; wherein, the second magnetic pole set having left and right magnetic poles that form an intermeshed-claw-pole set and has a spool with a coil having one guiding end thereof connected to a second electric power driven;

the spool and the left and right magnetic poles of the first magnetic pole set, and the second magnetic element, are placed in the housing without coming into contact with one another;

the spool and the left and right magnetic poles of the second magnetic pole set, and the first magnetic element, are placed in the wheel hub without coming into contact with one another', the magnetic plates of the left and right magnetic poles of the first magnetic pole set are corresponded with the first magnetic element; and the magnetic plates of the left and right magnetic poles of the second magnetic pole set are corresponded with the second magnetic element; and

through *rotations of the second magnetic element at wheel*, the **first magnetic pole set** and the wheel hub are rotated, i.e., rotor rotating; electric power is generated by induction between the immobile, **second magnetic pole set** and the *first magnetic element* i.e., stator assembly, at the housing, and the rotating first magnetic pole set and the second magnetic element;

at the wheel hub, thereby driving the first electric power driven device and providing the second electric power driven device with electric power and accomplishing automatically generating electric power without requiring any electric cells.

Comparing to the prior-art of the record, none of the prior art references of the record, either stand -alone or in combination, has taught or suggest the above-mentioned features, i.e., an intermeshed claw-pole stator with its magnetic element interact with an intermeshed claw-pole rotor with its magnetic element, wherein the rotation of the wheel hub is a mechanical input source to rotate the rotor in order for the generator with claw-pole stator claw-pole rotor to generate electricity.

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The prior-art refs show either the stator (or the rotor) is being configured as a claw pole magnetic assembly, i.e., the claw pole magnetic set and its magnetic elements, interact with the rotor (or the stator) of other configuration that is not claw-pole magnetic assembly, i.e. claw pole set and its magnetic elements.

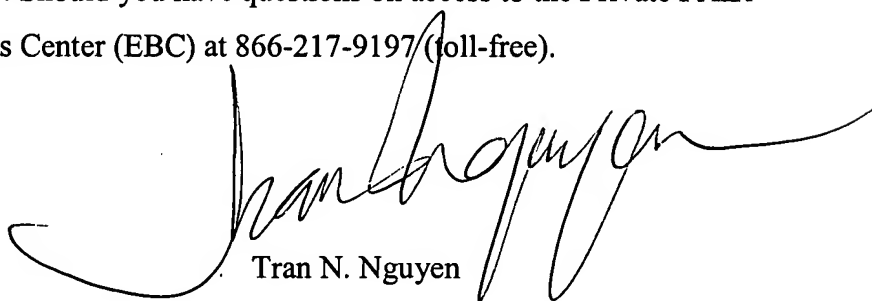
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tran N. Nguyen whose telephone number is (571) 272-2030. The examiner can normally be reached on M-F 7:00AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571)-272-2045. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A large, stylized handwritten signature in black ink, appearing to read 'Tran N. Nguyen', is written over the signature block.

Tran N. Nguyen
Primary Examiner
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